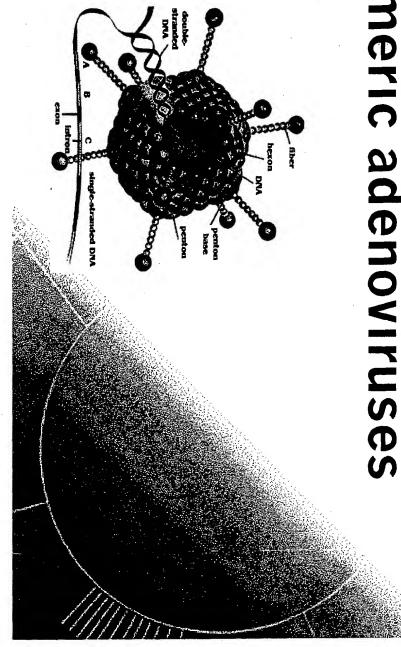
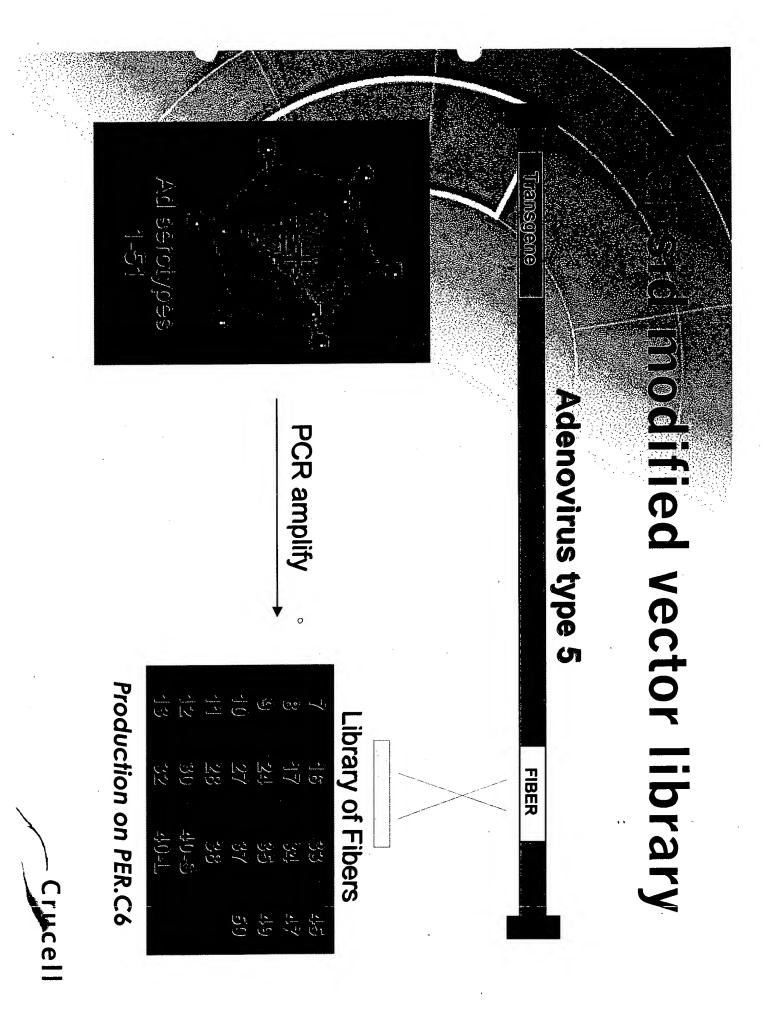




Patent application 09/348,354 "Chimeric adenoviruses







Descrition of "Tropism"

Lodent (US6, 127, 525):

Specificity or natural affinity for certain tissue

oganism".

Definition is limited to binding of virus to cell type due to compatibility of virus and cellular receptor.

organ or tissue a virus can transfer a gene in vivo to a particular cell, sum of biological processes that determine whether

Anatomical barriers

Viral lysis by serum components (non-antibody related)

Neutralizing antibodies

Receptor-virus compatibility # Vector stability

Crucel

de la Anatomical barriers

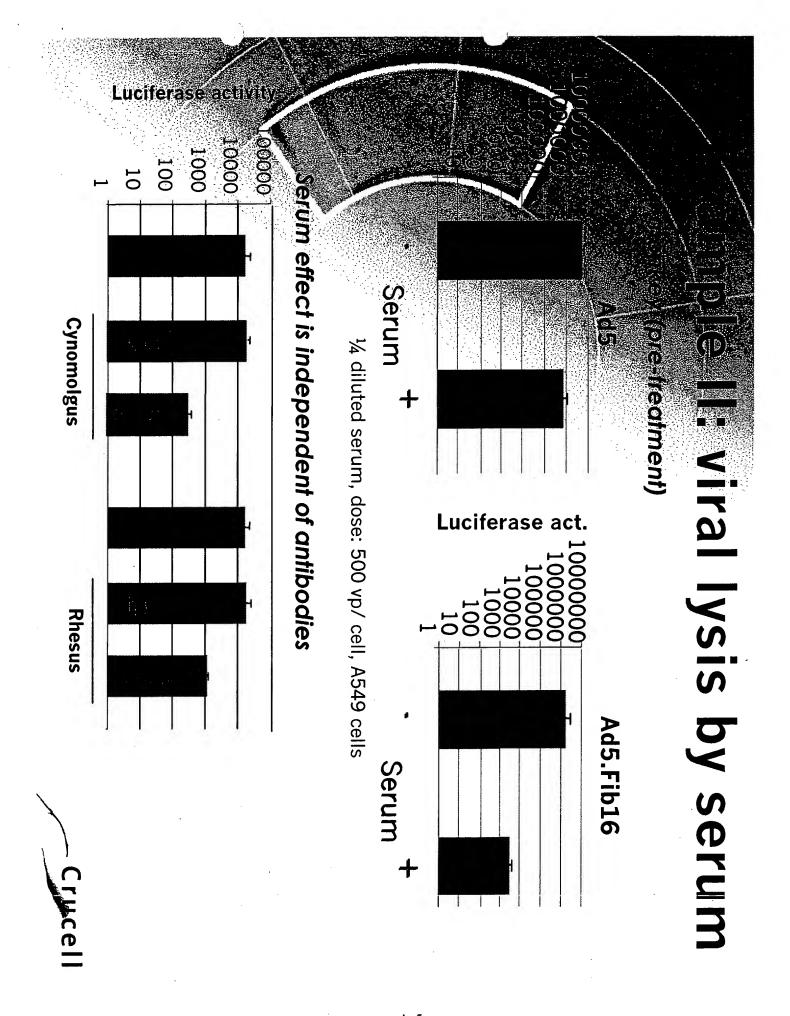
Table to reach the target of interest to for instance vessel wall barrier the virus is

Issue is severly limited Due to the size of Adenovirus, penetration in tumor

Expression profile of Ad5 receptor does not correlate with observed Ad5 infection patterns in rodents

(Fechner et al Gene Ther. 1999 Sep;6(9):1520-35)

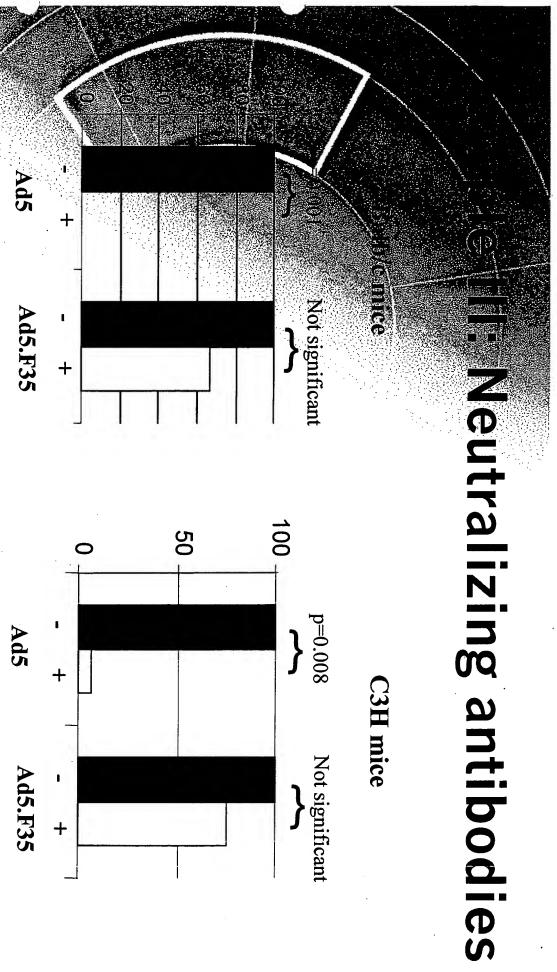




concerning fiber swap and n vivo escape of Nab patent (6,127,525):

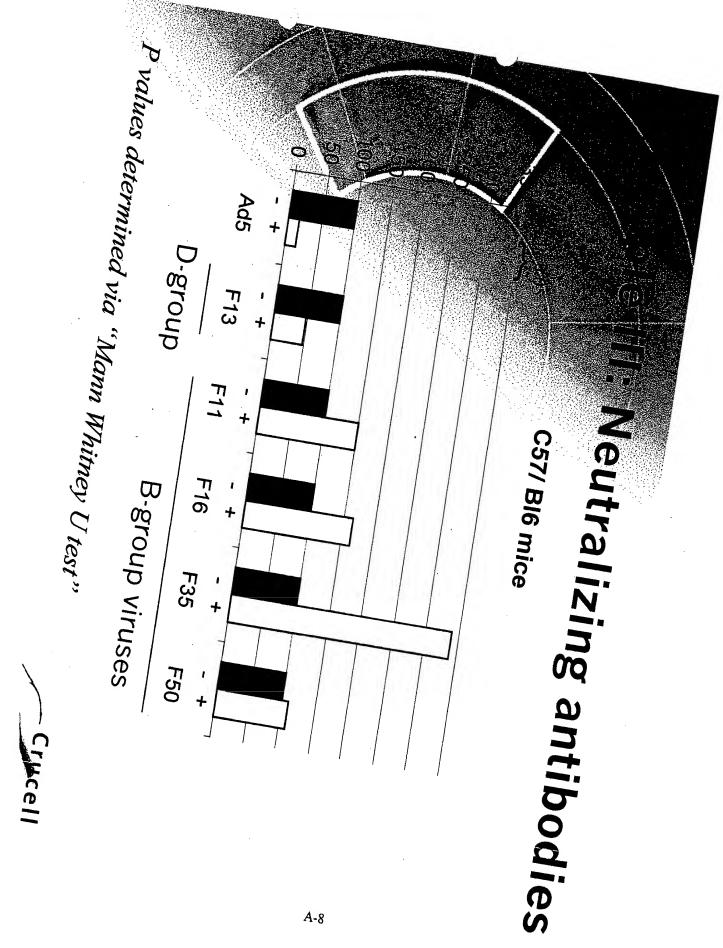
s (Columns 25)

etor to that of an adenoviral serotype 7 subgroup B vector by itself is vector comprising Ad5 fiber..... to allow the vector to escape neutralising antibodies generated against an se results confirm that switching the fiber from that of adenoviral serotype 5



P values determined via "Mann-Whitney U" test

- Crucell



nces in structural design of Def-chimeric vector

ete deletion of Ad5 fiber and insertion of complete Ad7 fiber.

et al: 3 Virol Vol 70, p2120:

we shown that amino acid homology between the tail regions of Ad5

sufficient to allow functional replacement of the Ad5 fiber with Ad7

Crucell:

(i.e. homology between Ad7 and Ad5 in fiber tail region is 57% on a.a. level) Retained Fiber tail of Ad5 to ensure proper interaction with Ad5 penton-base Substantial difference in vector stability expected

